

- 1 -

SEQUENCE LISTING

<110> ASTRAZENECA AB

<120> CPU MUTANTS

<130> LDG/101278

<160> 19

<170> PatentIn version 3.2

<210> 1

<211> 1269

<212> DNA

<213> Homo sapiens

<400> 1

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gttctacaga atcttactac aacatatgag attgttctct ggcagccggt aacagctgac      180
cttatttgta agaaaaaaca agtccatttt tttgtaaatg catctgatgt cgacaatgtg      240
aaagcccat taaatgtgag cggaattcca tgcagtgtct tgctggcaga cgtggaagat      300
cttattcaac agcagatttc caacgacaca gtcagccccc gagcctccgc atcgtactat      360
gaacagtatc actcactaaa tgaaatctat tcttggatag aatttataac tgagaggcat      420
cctgatatgc ttacaaaaat ccacattgga tcctcatttg agaagtaccc actctatggt      480
ttaaaggttt ctggaaaaga acaagcagcc aaaaatgcc aatggattga ctgtggaatc      540
catgccagag aatggatctc tcctgctttc tgcttggtgt tcataggcca tataactcaa      600
ttctatggga taatagggca atataccaat ctctgagggc ttgtggattt ctatgttatg      660
ccggtgggta atgtggatgg ttatgactac tcgtggaaaa agaatcgaat gtggagaaaag      720
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ctttatcctg agtcagaacc agaagtgaag gcagtggcta gtttcttgag aagaaatata      900
aaccagatta aagcatacat cagcatgcat tcatactccc agcatatagt gtttccatat      960
tcctatacac gaagtaaaag caaagacat gaggaactgt ctctagtagc cagtgaagca     1020
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<210> 2

<211> 423

<212> PRT

<213> Homo sapiens

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<400> 2

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Met Lys Leu Cys Ser Leu Ala Val Leu Val Pro Ile Val Leu Phe Cys
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Glu Gln His Val Phe Ala Phe Gln Ser Gly Gln Val Leu Ala Ala Leu
20           25           30

Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr Thr
35           40           45

Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys
50           55           60

Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Asp Val Asp Asn Val
65           70           75           80

Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala
85           90           95

Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser
100          105          110

Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu
115          120          125

Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu
130          135          140

Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val
145          150          155          160

Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile
165          170          175

Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu
180          185          190

Trp Phe Ile Gly His Ile Thr Gln Phe Tyr Gly Ile Ile Gly Gln Tyr
195          200          205

Thr Asn Leu Leu Arg Leu Val Asp Phe Tyr Val Met Pro Val Val Asn
210          215          220

Val Asp Gly Tyr Asp Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys
225          230          235          240

Asn Arg Ser Phe Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn
245          250          255

Arg Asn Phe Ala Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser
260          265          270

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Ser Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu
 275 280 285

Val Lys Ala Val Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys
 290 295 300

Ala Tyr Ile Ser Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr
 305 310 315 320

Ser Tyr Thr Arg Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val
 325 330 335

Ala Ser Glu Ala Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg
 340 345 350

Tyr Thr His Gly His Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly
 355 360 365

Gly Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile
 370 375 380

Glu Leu Arg Asp Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr
 385 390 395 400

Ile Lys Pro Thr Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala
 405 410 415

Trp His Val Ile Arg Asn Val
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<210> 3
 <211> 52
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

<400> 3
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52

<210> 4
 <211> 60
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

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<210> 5
 <211> 64

- 4 -

<212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

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 gtcc 64

<210> 6
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

<400> 6
 ggggacaagt ttgtacaaaa aagcaggctt caccatgaag ctttgcagcc ttgcagtcct 60
 tgtacc 66

<210> 7
 <211> 66
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide

<400> 7
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 atgatg 66

<210> 8
 <211> 18
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

<400> 8
 acccattgtt ctcttctg 18

<210> 9
 <211> 20
 <212> DNA
 <213> Artificial

<220>
 <223> Oligonucleotide Primer

<400> 9
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<210> 10
 <211> 57
 <212> DNA
 <213> Artificial

- 5 -

<220>

<223> Oligonucleotide Primer

<400> 10

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<210> 11

<211> 18

<212> DNA

<213> Artificial

<220>

<223> Oligonucleotide Primer

<400> 11

tgccaaaggg gcggtccc 18

<210> 12

<211> 422

<212> PRT

<213> Mus musculus

<400> 12

Met	Lys	Leu	His	Gly	Leu	Gly	Ile	Leu	Val	Ala	Ile	Ile	Leu	Tyr	Glu
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Gln	His	Gly	Phe	Ala	Phe	Gln	Ser	Gly	Gln	Val	Leu	Ser	Ala	Leu	Pro
			20					25					30		

Arg	Thr	Ser	Arg	Gln	Val	Gln	Leu	Gln	Asn	Leu	Thr	Thr	Thr	Tyr
		35					40				45			

Glu	Val	Val	Leu	Trp	Gln	Pro	Val	Thr	Ala	Glu	Phe	Ile	Glu	Lys	Lys
	50					55					60				

Lys	Glu	Val	His	Phe	Phe	Val	Asn	Ala	Ser	Asp	Val	Asp	Ser	Val	Lys
65					70					75					80

Ala	His	Leu	Asn	Val	Ser	Arg	Ile	Pro	Phe	Asn	Val	Leu	Met	Asn	Asn
				85					90					95	

Val	Glu	Asp	Leu	Ile	Glu	Gln	Gln	Thr	Phe	Asn	Asp	Thr	Val	Ser	Pro
			100					105					110		

Arg	Ala	Ser	Ala	Ser	Tyr	Tyr	Glu	Gln	Tyr	His	Ser	Leu	Asn	Glu	Ile
			115					120				125			

Tyr	Ser	Trp	Ile	Glu	Val	Ile	Thr	Glu	Gln	His	Pro	Asp	Met	Leu	Gln
	130						135					140			

Lys	Ile	Tyr	Ile	Gly	Ser	Ser	Phe	Glu	Lys	Tyr	Pro	Leu	Tyr	Val	Leu
145					150					155					160

Lys	Val	Ser	Gly	Lys	Glu	Gln	Arg	Ile	Lys	Asn	Ala	Ile	Trp	Ile	Asp
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165	170	175
Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu Trp		
180	185	190
Phe Ile Gly Tyr Val Thr Gln Phe His Gly Lys Glu Asn Leu Tyr Thr		
195	200	205
Arg Leu Leu Arg His Val Asp Phe Tyr Ile Met Pro Val Met Asn Val		
210	215	220
Asp Gly Tyr Asp Tyr Thr Trp Lys Lys Asn Arg Met Trp Arg Lys Asn		
225	230	235
Arg Ser Ala His Lys Asn Asn Arg Cys Val Gly Thr Asp Leu Asn Arg		
245	250	255
Asn Phe Ala Ser Lys His Trp Cys Glu Lys Gly Ala Ser Ser Ser Ser		
260	265	270
Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu Val		
275	280	285
Lys Ala Val Ala Asp Phe Leu Arg Arg Asn Ile Asp His Ile Lys Ala		
290	295	300
Tyr Ile Ser Met His Ser Tyr Ser Gln Gln Ile Leu Phe Pro Tyr Ser		
305	310	315
Tyr Asn Arg Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val Ala		
325	330	335
Ser Glu Ala Val Arg Ala Ile Glu Ser Ile Asn Lys Asn Thr Arg Tyr		
340	345	350
Thr His Gly Ser Gly Ser Glu Ser Leu Tyr Leu Ala Pro Gly Gly Ser		
355	360	365
Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile Glu		
370	375	380
Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Glu Arg Tyr Ile		
385	390	395
Lys Pro Thr Cys Ala Glu Ala Leu Ala Ala Ile Ser Lys Ile Val Trp		
405	410	415
His Val Ile Arg Asn Thr		
420		

<210> 13

- 7 -

<211> 422

<212> PRT

<213> Rattus norvegicus

<400> 13

Met Lys Leu Tyr Gly Leu Gly Val Leu Val Ala Ile Ile Leu Tyr Glu
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Lys His Gly Leu Ala Phe Gln Ser Gly His Val Leu Ser Ala Leu Pro
 20 25 30

Arg Thr Ser Arg Gln Val Gln Leu Leu Gln Asn Leu Thr Thr Thr Tyr
 35 40 45

Glu Val Val Leu Trp Gln Pro Val Thr Ala Glu Phe Ile Glu Lys Lys
 50 55 60

Lys Glu Val His Phe Phe Val Asn Ala Ser Asp Val Asn Ser Val Lys
 65 70 75 80

Ala Tyr Leu Asn Ala Ser Arg Ile Pro Phe Asn Val Leu Met Asn Asn
 85 90 95

Val Glu Asp Leu Ile Gln Gln Gln Thr Ser Asn Asp Thr Val Ser Pro
 100 105 110

Arg Ala Ser Ser Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu Ile
 115 120 125

Tyr Ser Trp Ile Glu Val Ile Thr Glu Gln His Pro Asp Met Leu Gln
 130 135 140

Lys Ile Tyr Ile Gly Ser Ser Tyr Glu Lys Tyr Pro Leu Tyr Val Leu
 145 150 155 160

Lys Val Ser Gly Lys Glu His Arg Val Lys Asn Ala Ile Trp Ile Asp
 165 170 175

Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu Trp
 180 185 190

Phe Ile Gly Tyr Val Thr Gln Phe His Gly Lys Glu Asn Thr Tyr Thr
 195 200 205

Arg Leu Leu Arg His Val Asp Phe Tyr Ile Met Pro Val Met Asn Val
 210 215 220

Asp Gly Tyr Asp Tyr Thr Trp Lys Lys Asn Arg Met Trp Arg Lys Asn
 225 230 235 240

Arg Ser Val His Met Asn Asn Arg Cys Val Gly Thr Asp Leu Asn Arg
 245 250 255

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Asn Phe Ala Ser Lys His Trp Cys Glu Lys Gly Ala Ser Ser Phe Ser
 260 265 270

Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu Val
 275 280 285

Lys Ala Val Ala Asp Phe Leu Arg Arg Asn Ile Asn His Ile Lys Ala
 290 295 300

Tyr Ile Ser Met His Ser Tyr Ser Gln Gln Ile Leu Phe Pro Tyr Ser
 305 310 315 320

Tyr Asn Arg Ser Lys Ser Lys Asp His Glu Glu Leu Ser Leu Val Ala
 325 330 335

Ser Glu Ala Val Arg Ala Ile Glu Ser Ile Asn Lys Asn Thr Arg Tyr
 340 345 350

Thr His Gly Ser Gly Ser Glu Ser Leu Tyr Leu Ala Pro Gly Gly Ser
 355 360 365

Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile Glu
 370 375 380

Leu Arg Asp Thr Gly Arg Tyr Gly Phe Leu Leu Pro Glu Arg Phe Ile
 385 390 395 400

Lys Pro Thr Cys Ala Glu Ala Leu Ala Ala Val Ser Lys Ile Ala Trp
 405 410 415

His Val Ile Arg Asn Ser
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<210> 14
 <211> 34
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 <213> Artificial

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34

<210> 15
 <211> 39
 <212> DNA
 <213> Artificial

<220>
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<400> 15
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39

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<210> 16
 <211> 20
 <212> PRT
 <213> Artificial

<220>
 <223> 8-Histidine containing Peptide tag

<400> 16

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His Ser Gly Ser
 20

<210> 17
 <211> 423
 <212> PRT
 <213> Homo sapiens

<400> 17

Met Lys Leu Cys Ser Leu Ala Val Leu Val Pro Ile Val Leu Phe Cys
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 20 25 30

Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr Thr
 35 40 45

Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys
 50 55 60

Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Asp Val Asp Asn Val
 65 70 75 80

Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala
 85 90 95

Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser
 100 105 110

Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu
 115 120 125

Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu
 130 135 140

Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val
 145 150 155 160

Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile

165

175

<210> 18

- 11 -

<211> 423

<212> PRT

<213> Homo sapiens

<400> 18

Met Lys Leu Cys Ser Leu Ala Val Leu Val Pro Ile Val Leu Phe Cys
 1 5 10 15

Glu Gln His Val Phe Ala Phe Gln Ser Gly Gln Val Leu Ala Ala Leu
 20 25 30

Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr Thr
 35 40 45

Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys
 50 55 60

Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Val Val Asp Asn Val
 65 70 75 80

Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala
 85 90 95

Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser
 100 105 110

Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu
 115 120 125

Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu
 130 135 140

Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val
 145 150 155 160

Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile
 165 170 175

Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu
 180 185 190

Trp Phe Ile Gly His Ile Thr Gln Phe Tyr Gly Ile Ile Gly Gln Tyr
 195 200 205

Thr Asn Leu Leu Arg Leu Val Asp Phe Tyr Val Met Pro Val Val Asn
 210 215 220

Val Asp Gly Tyr Asp Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys
 225 230 235 240

Asn Arg Ser Phe Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn
 245 250 255

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Arg Asn Phe Ala Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser
 260 265 270

Ser Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu
 275 280 285

Val Lys Ala Val Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys
 290 295 300

Ala Tyr Ile Ser Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr
 305 310 315 320

Ser Tyr Thr Arg Ser Lys Cys Lys Asp His Glu Glu Leu Ser Leu Val
 325 330 335

Ala Ser Glu Ala Val Arg Ala Ile Glu Lys Thr Asn Lys Asn Thr Arg
 340 345 350

Tyr Thr Tyr Gly Gln Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly
 355 360 365

Gly Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile
 370 375 380

Glu Leu Arg Asp Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr
 385 390 395 400

Ile Lys Pro Thr Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala
 405 410 415

Trp His Val Ile Arg Asn Val
 420

<210> 19
 <211> 423
 <212> PRT
 <213> Homo sapiens

<400> 19

Met Lys Leu Cys Ser Leu Ala Val Leu Val Pro Ile Val Leu Phe Cys
 1 5 10 15

Glu Gln His Val Phe Ala Phe Gln Ser Gly Gln Val Leu Ala Ala Leu
 20 25 30

Pro Arg Thr Ser Arg Gln Val Gln Val Leu Gln Asn Leu Thr Thr Thr
 35 40 45

Tyr Glu Ile Val Leu Trp Gln Pro Val Thr Ala Asp Leu Ile Val Lys
 50 55 60

- 13 -

Lys Lys Gln Val His Phe Phe Val Asn Ala Ser Asp Val Asp Asn Val
 65 70 75 80

Lys Ala His Leu Asn Val Ser Gly Ile Pro Cys Ser Val Leu Leu Ala
 85 90 95

Asp Val Glu Asp Leu Ile Gln Gln Gln Ile Ser Asn Asp Thr Val Ser
 100 105 110

Pro Arg Ala Ser Ala Ser Tyr Tyr Glu Gln Tyr His Ser Leu Asn Glu
 115 120 125

Ile Tyr Ser Trp Ile Glu Phe Ile Thr Glu Arg His Pro Asp Met Leu
 130 135 140

Thr Lys Ile His Ile Gly Ser Ser Phe Glu Lys Tyr Pro Leu Tyr Val
 145 150 155 160

Leu Lys Val Ser Gly Lys Glu Gln Ala Ala Lys Asn Ala Ile Trp Ile
 165 170 175

Asp Cys Gly Ile His Ala Arg Glu Trp Ile Ser Pro Ala Phe Cys Leu
 180 185 190

Trp Phe Ile Gly His Ile Thr Gln Phe Tyr Gly Ile Ile Gly Gln Tyr
 195 200 205

Thr Asn Leu Leu Arg Leu Val Asp Phe Tyr Val Met Pro Val Val Asn
 210 215 220

Val Asp Gly Tyr Asp Tyr Ser Trp Lys Lys Asn Arg Met Trp Arg Lys
 225 230 235 240

Asn Arg Ser Phe Tyr Ala Asn Asn His Cys Ile Gly Thr Asp Leu Asn
 245 250 255

Arg Asn Phe Ala Ser Lys His Trp Cys Glu Glu Gly Ala Ser Ser Ser
 260 265 270

Ser Cys Ser Glu Thr Tyr Cys Gly Leu Tyr Pro Glu Ser Glu Pro Glu
 275 280 285

Val Lys Ala Val Ala Ser Phe Leu Arg Arg Asn Ile Asn Gln Ile Lys
 290 295 300

Ala Tyr Ile Ser Met His Ser Tyr Ser Gln His Ile Val Phe Pro Tyr
 305 310 315 320

Ser Tyr Thr Arg Ser Lys Cys Lys Asp His Glu Glu Leu Ser Leu Val
 325 330 335

- 14 -

Ala Ser Glu Ala Val Arg Ala Ile Glu Lys Thr Ser Lys Asn Thr Arg
340 345 350

Tyr Thr Tyr Gly Gln Gly Ser Glu Thr Leu Tyr Leu Ala Pro Gly Gly
355 360 365

Gly Asp Asp Trp Ile Tyr Asp Leu Gly Ile Lys Tyr Ser Phe Thr Ile
370 375 380

Glu Leu Arg Asp Thr Gly Thr Tyr Gly Phe Leu Leu Pro Glu Arg Tyr
385 390 395 400

Ile Lys Pro Thr Cys Arg Glu Ala Phe Ala Ala Val Ser Lys Ile Ala
405 410 415

Trp His Val Ile Arg Asn Val
420